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AUTHOR Austin, Joe Dan, Ed.
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ABSTRACT

This book provides applications for use in the secondary school mathematics curriculum by selecting related articles appearing in the "Mathematics Teacher" during the last 15 years. The articles are grouped into chapters that reflect the main secondary school mathematics courses and categorized by the highest level of mathematics needed for understanding its contents. Each chapter begins with a short introduction outlining some early historical applications of the topic and containing a brief overview of the articles in the chapter. References are given for readers desiring additional information. The chapters are: (1) Using Applications in Teaching; (2) Arithmetic; (3) Geometry; (4) Algebra; (5) Trigonometry and Elementary Analysis; (6) Calculus; and (7) Probability and Statistics. The 78 articles are classified in two indices. Index A classifies the articles by Application Area, and Index B classifies them by Mathematical Topic. (MDH)



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